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INFORMATION DISCLOSURE STATEMENT BY APPLICANT PTO-1449	DOCKET NO. 0020/15302	SERIAL NO. 09/883,734
	APPLICANT THOMPSON et al.	
	FILING DATE June 18, 2001	GROUP 1774

U. S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS	SUBCLASS	FILING DATE

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS

EXAMINER INITIAL		Reactivity	Co-ordinated	AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
May	0			B.N. Cockburn, et al., "Reactivity of Co-ordinated Ligands. Part XV. Formation of Complexes containing Group V Donor Atoms and Metal Carbon π -bonds", Journal of the Chemical Society, Dalton Transactions, Vol. 4 (1973), pp. 404-410. (no month)
		Donor Atoms	Metal-Carbon	
				Vol. 4 (1973), pp. 404-410.

EXAMINER Marie R. Yemnitzky	DATE CONSIDERED 01/13/03
EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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EXAMINER INITIAL		AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
MEY	0	J.K. Lee, et al., "Thin film light emitting devices from an electroluminescent ruthenium complex", Appl. Phys. Lett., 69 (12), pp. 1686-1688, 16 September 1996.
MEY	0	D. Yoo, et al., "New Electro-Active Self-Assembled Multilayer Thin Films Based on Alternately Adsorbed Layers of Polyelectrolytes and Functional Dye Molecules", Synthetic Metals, 85, pp. 1425-1426, 1997. (no month)
MEY		J-K. Lee et al., "Thin Film Light Emitting Heterostructures: From Conjugated Polymers to Ruthenium Complexes to Inorganic Nanocrystallites," Abstracts of Papers, Part 2, 213 th ACS National Meeting, American Chemical Society, San Francisco, CA, Apr. 13-17, 1997, No. 200.

EXAMINER Marie R. Yarnitzky	DATE CONSIDERED 12/10/02
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EXAMINER INITIAL		AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
Mey	0	J. Lee, et al., "Synthesis and Characterization of an Electroluminescent Polyester Containing the Ru(II) Complex", Chem. Mater., 1997, Vol. 9, No. 8, pp. 1710-1712. (no month)

EXAMINER <i>Maie R. Yarnitzky</i>	DATE CONSIDERED <i>12/10/02</i>
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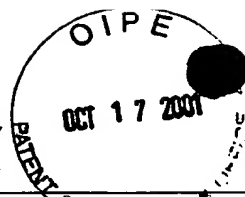
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EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	OCT 19 2001 CLASS	2001 SUBCLASS	FILING DATE*
MR4	4,455,506	June 19, 1984	Ayyagari et al.	313	506	—
	4,758,765	July 19, 1988	Mitsumori	313	506	—
	4,769,292	September 6, 1988	Tang et al.	428	690	—
	4,950,950	August 21, 1990	Perry et al.	313	504	—
	5,294,870	March 15, 1994	Tang et al.	313	504	—
	5,439,794	August 8, 1995	Barton	—	—	—
	5,540,999	July 30, 1996	Yamamoto et al.	428	411.1	—
	5,663,573	September 2, 1997	Epstein et al.	257	40	—
	5,674,597	October 7, 1997	Fuji et al.	428	212	—
	5,698,048	December 1997	Friend et al.	136	263	—
	5,703,436	December 30, 1997	Forrest et al.	313	506	—
	5,707,745	January 13, 1998	Forrest et al.	428	432	—
	5,757,026	May 26, 1998	Forrest et al.	257	40	—
	5,757,139	May 26, 1998	Forrest et al.	315	169.3	—
	5,811,833	September 22, 1998	Thompson	257	40	—
	5,834,893	November 10, 1998	Bulovic et al.	313	506	—
	5,840,897	November 24, 1998	Kirlin et al.	—	—	—
	5,844,363	December 1, 1998	Gu et al.	313	506	—
	5,861,219	January 19, 1999	Thompson et al.	428	690	—
	5,874,803	February 23, 1999	Garbuzov et al.	313	506	—
	5,917,280	June 29, 1999	Burrows et al.	313	506	—
	5,932,895	August 3, 1999	Shen et al.	257	89	—
	5,986,401	November 16, 1999	Thompson et al.	313	504	—
	6,013,982	January 11, 2000	Thompson et al.	313	506	—
	6,045,930	April 4, 2000	Thompson et al.	428	690	—
	6,046,543	April 4, 2000	Bulovic et al.	313	504	—
	6,048,630	April 11, 2000	Burrows et al.	428	690	—
	6,091,195	July 18, 2000	Forrest et al.	313	504	—
	6,097,147	August 1, 2000	Baldo et al.	313	506	—
MR4	6,111,902	August 29, 2000	Kozlov et al.	372	39	—

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EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS	SUBCLASS	FILING DATE
MR4	6,125,226	September 26, 2000	Forrest et al.	385	131	—
MR4	6,160,828	December 12, 2000	Bulovic et al.	372	39	—

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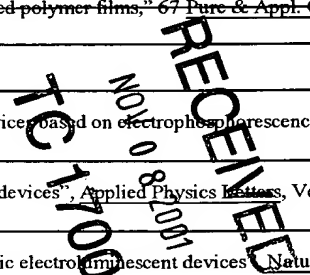
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	RECEIVED		TRANSLATION	
				CLASS	SUBCLASS	YES	NO
MR4	96/19792	June 27, 1996	WO	OCT 19 2001		X	
MR4	97/33296	September 12, 1997	WO	TC 1700		X	
MR4	97/48115	December 18, 1997	WO			X	
MR4	97/48139	December 18, 1997	WO			X	
MR4	98/50989	November 12, 1998	WO			X	

OTHER DOCUMENTS

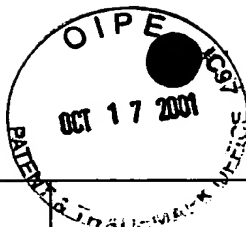
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	D. Z. Garbuzov et al., "Photoluminescence Efficiency and Absorption of Aluminum Tris-Quinolate (Alq ₃) Thin Films," <u>249 Chemical Physics Letters</u> 433-437 (1996).
	C. E. Johnson et al., "Luminescent Iridium (I), Rhodium (I), and Platinum (II) Dithiolate Complexes," <u>105 Journal of the American Chemical Society</u> 1795-1802 (1983).
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	C. C. Wu et al., "Integrated three color organic light emitting devices," <u>69 Appl. Phys. Lett.</u> 3117-3119 (November 1996).
	H. Vestweber et al., "Electroluminescence from polymer blends and molecularly doped polymers," <u>64 Synthetic Metals</u> 141-145 (1994).
	Burrows et al., "Color Tunable Organic Light Emitting Devices," <u>69 Appl. Phys. Lett.</u> 2959 (November 11, 1996).
	D. Z. Garbuzov et al., "Organic films deposited on Si p-n junctions: Accurate measurements of fluorescence internal efficiency, and application to luminescent antireflection coatings," <u>80 J. Appl. Phys.</u> 4644-4648 (October 1996).
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MR4	H. Gilman, et al., <u>J. Am. Chem. Soc.</u> , 71, 1870-1871 (1949).
MR4	M.A. Baldo, et al., "Very high efficiency green organic light-emitting devices based on electrophosphorescence", <u>Applied Physics Letters</u> , Vol. 75, No. 1, pp. 4-6, (1999) (July 1999).
MR4	D.F. O'Brien, et al., "Improved energy transfer in electrophosphorescent devices", <u>Applied Physics Letters</u> , Vol. 74, Number 3, pp. 442-444, (January 18, 1999).
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MEY	G.R. Newkome, et al., 86 <i>Chem. Rev.</i> , 451 (1986). ⁻⁴⁸⁹ (no month)
MEY	A.D. Ryabov, 90 <i>Chem. Rev.</i> , 403 (1990). ⁻⁴²⁴ (no month)
MEY	M. Maestri, et al., 47 <i>Adv. Photochem.</i> , 1 (1992) Vol. 17, pp. 1-68 (1992). ⁻²⁴⁴⁴ (no month)
MEY	L. Chassot, et al., 66 <i>Helv. Chim. Acta.</i> , 2443 (1983). ⁻²⁴⁴⁴ (no month)
MEY	L. Chassot, et al., 23 <i>Inorg. Chem.</i> , 4249 (1984). 4249-4253 (Dec 1984). 2007
MEY	S. Bonafede, et al., 90 <i>J. Phys. Chem.</i> , 3836 (1986). 3836-3841 (July 1986).
MEY	L. Chassot, et al., 108 <i>J. Am. Chem. Soc.</i> , 6084 (1986). ⁶⁰⁸⁴⁻⁶⁰⁸⁵ (no month)
MEY	Ch. Cornioley-Deuschel, et al., 26 <i>Inorg. Chem.</i> , 3354 (1987). 3354-3358 (Oct. 1987).
MEY	L. Chassot, et al., 26 <i>Inorg. Chem.</i> , 2814 (1987). 2814-2818 (Aug. 1987).
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MEY	A. von Zelewsky, et al., 132 <i>Coord. Chem. Rev.</i> , 75 (1994). ⁷⁵⁻⁸⁵ (no month)
MEY	P. Joliet, et al., 35 <i>Inorg. Chem.</i> , 4883 (1996). 4883-4888 (Aug. 1996).
MEY	H. Wiedenhofer, et al., 99 <i>J. Phys. Chem.</i> , 13385 (1995). ⁻¹³³⁹¹ (no month)
MEY	M. Gianini, et al., 36 <i>Inorg. Chem.</i> , 6094 (1997). 6094-6098 (1997). (no month)
MEY	M. Maestri, et al., 122 <i>Chem. Phys. Lett.</i> , 375 (1985). 375-379 (Dec. 1985).
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MEY	T. Kaufmann, et al. 116 <i>Chem. Ber.</i> , 992 (1983). ⁻¹⁰⁰⁰ (no month)
MEY	D.H. Hey, et al., <i>J. Chem. Soc.</i> , 3963 (1955). ⁻³⁹⁶⁹ (no month)
MEY	R.A. Abramovitch, et al., <i>J. Chem. Soc.</i> , 2175 (1964). ⁻²¹⁸⁷ (no month)
MEY	J.C.W. Evans, et al., 2 <i>Org. Synth. Coll.</i> , 517 (1943). ⁻⁵¹⁹ (no month)
MEY	R.E. Moore, et al., 23 <i>J. Org. Chem.</i> , 1504 (1958). 1504-1506 (Oct. 1958).
MEY	A. Uehara, et al., 239 <i>J. Organomet. Chem.</i> , 1 (1982). ⁻¹⁰ (no month)
MEY	H. Takaya, et al., 67 <i>Org. Synth.</i> , 20 (1989). ⁻⁹³ (no month)
MEY	G.B. Kauffman, et al., 6 <i>Inorg. Synth.</i> , 211 (1957). ⁻²¹⁵ (no month)
MEY	A. Shoustikov, et al., 91 <i>Synth. Met.</i> , 217 (1997). ⁻²²¹ (no month)
MEY	C.W. Tang, et al., "Organic Electroluminescent Diodes", 51 <i>Appl. Phys. Lett.</i> , 913 (1987). 913-915 (Sept. 1987).
MEY	S.R. Forrest, et al., "Organic Emitters Promise a New Generation of Displays", <i>Laser Focus World</i> (Feb. 1995).
MEY	Gary L. Miessler, et al., <i>Inorganic Chemistry</i> , 2nd Edition, Prentice-Hall (1997), pages 422 and 424. *
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MEY	Kido, J., et al., <i>Applied Physics Letters</i> , 73, 2721 (1998). 2721-2723 (Nov 1998)
MEY	I.G. Hill, et al., "Combined photoemission/ <i>in vacuo</i> transport study of the indium tin oxide/copper phthalocyanine/N, N'-diphenyl-N, N'-bis (1-naphthyl)-1,1' biphenyl-4,4" diamine molecular organic semiconductor system", <i>Journal of Applied Physics</i> , Vol. 86, Number 4, 2116-2122, (August 1999).
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MEY	L.S. Hung, "Enhanced electron injection in organic electroluminescence devices using an Al/LiF electrode", <i>Appl. Phys. Lett.</i> , 70(2), 152-154, (January 1997).

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MR4		G. Gu, et al., "High-external-quantum-efficiency organic light-emitting devices", <u>Optics Letters</u> , Vol. 22, No. 6, 396-398, (March 1997).
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MR4		C. W. Tang, et al., "Electroluminescence of doped organic films," 65 <u>J. Appl. Phys.</u> , 3610-3616, (1989). May
MR4		V. Bulovic, et al., "Bright, saturated, red-to-yellow organic light-emitting devices based on polarization-induced spectral shifts," <u>Chem. Phys. Lett.</u> , 287, 455-460 (1998). (no Month)
MR4		M. A. Baldo et al., "Excitonic singlet-triplet ratio in a semiconducting organic thin film", <u>Physical Review B</u> , pp. 422-428 (15 November 1999). 14/22-14/28
MR4		M. A. Baldo et al., "High-Efficiency fluorescent organic light-emitting devices using a phosphorescent sensitizer", <u>Nature</u> , Vol. 403, pp. 750-753, February 17, 2000.
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* - Copy of reference enclosed.

EXAMINER	Marie R. Granitzky	DATE CONSIDERED	12/10-11/02
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<p style="text-align: center;">O I P E J C 1 0 6 FEB 11 2002 PATENT & TRADEMARK OFFICE</p> <p style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT PTO-1449</p>	DOCKET NO. 10020/15302	SERIAL NO. 09/883,734
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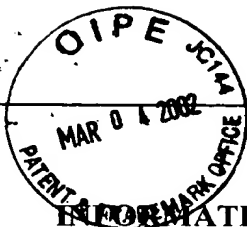
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EXAMINER INITIAL	AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
<i>MB</i>	Gary L. Miessler, et al., <u>Inorganic Chemistry</u> , 2nd Edition, Prentice Hall (1999), pages 1-3, 422-424. (no mon) ✓

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* See citations on PTO-1449 filed May 23, 2002.

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EXAMINER INITIAL	DOCUMENT NUMBER	AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
<i>Mei</i>		Y. Kunugi, et al., "A Vapochromic LED", <i>J. Am. Chem. Soc.</i> , Vol. 120, No. 3, pp. 589-590, 1998.
		(published on Web 01/07/1998).

EXAMINER <i>Maie R. Yarnitzky</i>	DATE CONSIDERED <i>12/10/02</i>
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MR4	4,539,507	September 3, 1985	VanSlyke et al.	313	504	—
	5,231,329	July 27, 1993	Nishikitani et al.	313	503	—
	5,247,190	September 21, 1993	Friend et al.	257	40	—
	5,953,587	September 14, 1999	Forrest et al.	438	99	—
	5,981,306	November 9, 1999	Burrows et al.	438	22	—
	5,986,268	November 16, 1999	Forrest et al.	250	372	—
	5,998,803	December 7, 1999	Forrest et al.	257	40	—
	6,013,538	January 11, 2000	Burrows et al.	438	22	—
	6,030,715	February 29, 2000	Thompson et al.	428	690	—
	5,203,974	April 20, 1993	Kokado et al.	—	—	—
	5,128,587	July 7, 1992	T. Skotheim, et al.	313	504	—
	5,756,224	May 26, 1998	H. F. Börner, et al.	428	690	—
	5,457,565	October 10, 1995	Namiki et al.	359	273	—
	5,834,130	November 10, 1998	Kido et al.	428	690	—
	5,601,903	February 11, 1997	Fujii et al.	428	212	—
	5,294,810	March 15, 1994	Egusa et al.	257	40	—
	5,504,183	April 2, 1996	Shi et al.	528	272	—
	5,554,220	September 10, 1996	Forrest et al.	—	—	—
	6,358,631	March 19, 2002	Forrest et al.	428	690	—
	6,242,115	June 5, 2001	Thompson et al.	428	690	—
	6,337,102	January 8, 2002	Forrest et al.	427	624	—
	5,811,834	September 22, 1998	Tamano et al.	257	40	—
	5,989,738	November 23, 1999	Haase et al.	428	690	—
	6,083,634	July 4, 2000	Shi	428	690	—
	6,013,429	January 11, 2000	Franke et al.	430	551	—
	6,091,382	July 18, 2000	Shioya et al.	345	76	—
MR4	6,303,238	October 16, 2001	Thompson et al.	428	690	—

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						YES	NO
MRy	0 704 915	April 3, 1996	EP	—	—	X	
MRy	3-289090	December 19, 1991	JP	—	—	X+	

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MRy	0	Bulovic et al., "Transparent Light-emitting Devices", Nature 380, 29 (1996) (March 1996).
MRy	0	Whitlock et al., "Investigations of Materials and Device Structures for Organic Semiconductor Solar Cells", Optical Eng., Vol. 32., No. 8, 1921-1934 (August 1993).
MRy	0	Adachi et al., Jpn. J. Appl. Phys., 27:L269-L271, Feb. 1988.
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* - Certified English language translation provided.

EXAMINER	Marie R. Yarnitzky	DATE CONSIDERED	12/10/02
EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			

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